Igor **Ferst**

SOFTWARE ENGINEER · TECHNICAL AND PRODUCT LEADER

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Summary

Technical leader skilled in all parts of software design and development, from gathering requirements to architecting, implementing and shipping a scalable production system. I'm looking for a high-impact, high-leverage role as a technical and/or product leader.

As a lead software engineer at Aver, I'm responsible for delivering high-quality software that aligns with our company's business goals. While at Aver, I've led cross-functional teams building new products from scratch, solved difficult and high-impact technical problems, helped triple the size of our engineering team, and successfully drove adoption of modern development practices and agile methods.

I cut my teeth in Silicon Valley but I love living and working in Columbus.

Work Experience

Aver Inc.
Columbus, OH

LEAD SOFTWARE ENGINEER
Sept. 2014 - present

- Led the cross-functional team that built Aver's Virtual Payer, a care management and revenue cycle management product for surgical centers. My team took this product from idea to production application with paying customers. As team lead I owned the product design and technical architecture, maintained the roadmap, and implemented features across the stack from APIs in Python to UI in Angular.
- Architected a microservice-based platform as part of a core team of three lead engineers, and implemented some of its core features (technologies include Python, SQL, Docker, Redis.). Trained engineers on new platform.
- Led a platform team that designed and built a platform-wide role-based user authorization framework, a new front-end stack based on Angular and Webpack, and client-facing reporting and file sharing portals.
- Grew developer team from 4 to 13: overhauled interview process to emphasize rigor and consistency, wrote job descriptions, defined onboarding process and personally onboarded most new developers.
- Introduced and trained engineering team on new technologies (Docker, Angular), development processes (TDD, code reviews, release process) and agile methodology (user stories, estimation).
- Solved difficult, high-impact technical problems as part of a total rebuild of Aver's legacy analytics product on the new platform: designed and implemented graph algorithm for advanced analytics over healthcare claims data, created DSL for user-defined computations over claims data.

Freelance
Columbus, OH

SOFTWARE ENGINEER
Apr. 2016 - Oct. 2016

- Designed and built an Angular front-end for a consumer product safety and performance testing tool (in collaboration with one other developer).
- Gathered requirements through site visits and end-user interviews.
- Assisted client's in-house development team with design of product back-end and APIs.
- Communicated progress weekly to client stakeholders and managed billing and operations.

InSample Inc.
San Francisco, CA

SOFTWARE ENGINEER
Mar. 2014 - Sept. 2014

- First employee at healthcare analytics startup building a web-based tool for data exploration and statistical de-biasing of clinical experiments.
- Designed and built the product protoype together with the CTO.
- Prepared fundraising materials and interviewed prospective customers.

Google Inc.
Mountain View, CA

SOFTWARE ENGINEER
Feb. 2013 - Mar. 2014

- Worked on the conversion tracking and attribution analysis products that Google's ads customers use to understand the impact of their advertising. Primary languages: Java and Javascript.
- Implemented a novel conversion tracking visualization and incorporated it into the AdWords suite of analytics tools.
- Acted as team's Angular SME during team's transition from legacy front-end framework to Angular.
- Researched and recommended enhancements to Google Analytics attribution modeling algorithm as a 20% project.

Palantir Technologies Inc.

Palo Alto, CA

IMPLEMENTATION CONSULTANT / SOFTWARE ENGINEER

Jan. 2011 - Jan. 2013

- Embedded with one of Palantir's largest capital markets clients, a prominent global macro hedge fund; created research tools and content using Palantir's capital markets analytics platform and provided on-site training and support for users.
- Guided development of capital markets platform's visualization and reporting features; gathered requirements from multiple clients, wrote spec, tested features, maintained roadmap.
- Hiring manager for implementation consultant role.
- Transitioned to engineering team; implemented platform's geovisualization tools.

Skills

Core	Python, Java, Node.JS/Express, SQL, Docker/Docker Compose
Web	JavaScript, Angular, HTML5, CSS, Webpack, Bootstrap, Underscore
Some Experience	Redis, MongoDB, AWS
Testing	Jasmine, Pytest, VCR.py
Dev Tools	Git, Bash, Sublime Text, JIRA, Github
Areas of Expertise	Algorithms, TDD, agile, product management, math, UX design, data visualization, technical hiring

Education

Cornell University

Ithaca, NY

M.S. IN COMPUTER SCIENCE

- PhD candidate in Applied Mathematics supported by a three-year National Science Foundation Graduate Research Fellowship.
- Completed graduate coursework in math, algorithms, probability, software engineering.
- Published original research on probabilistic algorithms (`https://tinyurl.com/ycheu4us`).

University of Waterloo

Waterloo, Ontario

M.MATH. IN COMBINATORICS & OPTIMIZATION

- Teaching assistant for undergraduate courses in engineering mathematics.

University of Chicago

Chicago, IL

B.S. IN MATHEMATICS WITH HONORS

- Published original research in theoretical computer science (`https://tinyurl.com/ycheu4us`).

Volunteering

Columbus Arts Festival

Columbus, OH

MEMBER OF ORGANIZING COMMITTEE; CHAIR OF TECHNOLOGY SUBCOMMITTEE

Jan. 2016 - Jul. 2017

- Created an interactive on-line map for the festival: `https://github.com/igorferst/columbus-arts-festival-map`

United Schools Network

Columbus, OH

VOLUNTEER INSTRUCTOR

Sep. 2015 - Nov. 2015

- Designed and taught a three month after-school programming course at a local charter middle-school.